

Elmotamyez questions Bank

SCIENCE

Final Revision



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o cartoon science









EL MOTAMYEZ - SCIENCE Questions Bank FINAL REVISION

	QUESTION 01	Ch	oose The C	orre	ect Answer		
	When a panthe scales changes into		neleon stand	s on l	eaves of trees,	the	color of its
	(a) white		green	©	blue	d	black
	The fur of fenn			om			
(2)	(a) wind	(b)	rains	©	hot weather	(1)	cold weath
(3)	One of the behavior	oral a	daptations th	at he	lp the animal p	orote	ect itself from
	Camouflage	b	extinction	©	immigration	d	reproductio
4	Bat isanimal. a nocturnal		morning		Harmful	d	don't fly
5	a heavy hair				thick fur	(d)	many feathers
(A)	pan	ting to	o lower her b	ody to	emperature.		
6	Whales	(b)	Lions	©	Foxes	d	Bats
7	Animals that live in allow heat to escap			nt hav	/e <mark>ear</mark>	s to	help her, and
3	(a) small	(b)	short	©	sharp	(d)	long
(8)	Fish extracts oxyge	en ou	t of the wate	r by			
9	a skin		gills		lungs	(1)	fins
0	which of the fo	llowir	ng can turn it	s head	d in <mark>all dire</mark> ctio	ns?	
	a lizards	(b)	owls	0	cats	(1)	snakes
(10)	When you determ	ine a	sweet or bitte	er tast	e, you have us	ed	
•	the tongue	(b)	the eye	©	the ear	(1)	the nose
11)	The sense you use a taste	to ide	entify the sce sight	nt of a	a perfume. smell	d	hearing
(12)	Your sensation of I	hot w	eather deper	nds on	sensory recep	otors	in the
	eyes	(b)	skin	©	nose	(1)	ears
13	What carries the m something	- 3	2 2 70		o your brain v	vhen	you see
	nerves	(b)	muscle	(c)	veins	(d)	alands



PRIMARY 4-FIRST TERM



0		:system h				nessages that	come	from our
(14)		roundings, such respiratory	-			nervous	d	circulatory
(15)	<u></u>	energy affe	ects t	he sensory red	cepto	ors in the eye o	ausir	ng vision.
(19)	(3)	Magnetic	(b)	Light	©	Kinetic	(d)	Sound
(IA)	The	organ which is	resp	onsible for sm	ellin	g sense		
(16)	(3)	ear	(b)	tongue	ⓒ	nose	d	eye
(17)	All	the following co	mpo	nents are fron	n the	nervous syste	em ex	cept
W	(1)	spinal cord	(b)	heart	©	nerves	(1)	brain
(18)	The	:is the m	ain c	ontrol center	in yo	ur body.	11%	
•	(3)		(b)	brain		spinal cord		sense
		sys <mark>tem</mark> helps u			es th	at come from	our s	urroundings,
(19)		h as smells and	-	ds digestive	0	B08/01/5		Sireulatera I
						nervous		circulatory
20	_	en <mark>ca</mark> n object co		- 1	se to	sensory	0	
	(1)	r <mark>efl</mark> ex action	(P)	respiration	(c)	organ	(1)	sleeping
(21)		All <mark>the</mark> following	g livir	ng organisms	have	Tapetum Luc	idu <mark>m</mark> ,	except
(21)	(3)	snakes	(b)	fishing cats	©	dogs	d	horses
(22)	Wh	ich type of ener	gy d	oes the sun pr	ovide	e Earth?		
•	(1)	light	(b)	gravity	©	chemical	(d)	<mark>mechani</mark> cal
(23)	The	organ responsi	ble f	o <mark>r the se</mark> nse o	f sigh	nt y	7 -	
9	(1)	the ear	(b)	the tongue	0	the nose	d	the eye
(2)	Ani	imals <mark>can c</mark> omm	unica	ate with each	othe	r through		
23)	(1)	sounds and light	(b)	talking	0	writing	d	reading
	All	of th <mark>ese mate</mark> ria	ils ar	e opaque exce	ept			
(25)	(a)		(h)	human	(c)	book	(d)	water
	_	SO W		body			0	water
(26)	-	ich of the follov						
AN	(1)	the moon	ூ	our eyes	0	fire	•	a mirror
(27)	0	detect the place	-		_	7		
	N.C.	sight sense	211	touch sense	Mon			hearing sense
(28)	-	h of the following			-	The same of the sa	ept	200
Ja D	(a)	the fire	(P)	the sun	(c)	the lamp		the eye

PRIMARY 4-FIRST TERM



0		eyes have a the	nin m	embrane in t	he bac	ck of the eye.		
(29)	(3)	Human	•	Tarsier monkey	©	Snake	•	Bats
30	All	of the following	g are	transparent o	bject	s, except	10	
90	(1)	glass	(b)	water.	©	paper	(d)	air
	it pr	oduces chemic	al rea	ction inside	its boo	dy	200	
(31)	a	butterflies	(b)	fireflies beetles	©	house flies	(1)	owl
(32)	the	mating season	of hu	ımpback wha	ales			
(a)	(1)	summer	(b)	winter	©	spring	(1)	fall
	Boti	h tarsie <mark>r and</mark> ov	wl,					
(33)	(3)	can <mark>swim</mark>	(b)	can fly	©	are nocturnal animals	(1)	same specie
(34)	Wha	at <mark>hap</mark> pens to I	ight v	when it hits a	rougl	n surface?		
3	(1)	scattering	(b)	reflection	©	absorption	d	refraction
(35)		ich <mark>o</mark> f the follov ects?	wing	organs are w	orking	g together for	seeii	ng different
0	a	N <mark>os</mark> e and br <mark>ain</mark>	(b)	Eyes and brain	0	Ears and brain	d	Tongue and brain
(36)		r <mark>e is a tapetum</mark>		um in all of t	_			
9	(a)	the horse	(b)	the cat	©	the human	d	the dog
(37)	All t	the following c	onsid	ered as a sou	rce of	light except		
6	(1)	sun	(b)	candle	©	fire	d	moon
(20)	Whi	ich of the follo	wing .	allows the lig	ht to	pass through	it?	
(38)	(1)	A rock	(b)	Moon	©	Wood	d	Glass
	Wha	at property of I	ight h	nelps you see	yours	elf in a mirror	?	
(34)		refraction		reflection		absorption		relativity
	Rea	din <mark>g and writ</mark> ir				communication	on be	etween
40		human		animals		birds	-	plants
		ing the thumb						7.90 B
41)	(2)	colors	(b)	codes		waves	d	lights
A	Bats	use their	To	get informa	tion a	bout their sur	roun	dings in the
(42)	darl		20					
	(a)	eyes	(b)	tongue	©	ears	(1)	hands
(B)	The	force that slov	vs dov	wn (decrease	s) the	speed is called	d	P
43	a	push	b	gravity	0	friction	d	pull

PRIMARY 4-FIRST TERM



4	Senses organs co and understanding		ormation an	d sen	d signals to	for	processing
•	stomach		brain	0	hands	d	ear
	When an obje					ch	anges
(45)	(a) color	- 7/	shape	_	size	_	position
	When you mo						
46)	a pushing force	(b)	light energy	•	pulling force	d	sound energy
	All the following	represe	nt the pushi	ing fo	rce except to		
47	kick a ball	(b)	press on switch	©	close drawer	d	lifting up a bag.
(48)	When you sit on chair	a chair,	the force of	gravit	ty isand	hold	ing you in the
40	a pull you upward	(b)	pull you downward	©	push you upward	d	push you downward
40	Push or pull actio	ns are o	considered a	s type	s of		
49)	force	(b)	device	©	energy	d	adaptation
50	The force that pu	lls the d	bjects dowr	towa	ard the center	of th	e earth is
9	gravity	(b)	pushing	©	pulling	(1)	wind
	The force that oc	curs wh	en an objec	t rubs	against anoth	ner ol	oject is
(51)	called a friction	(b)	gravity	©	push	d	pull
(63)	The airbag is mad	de of					
32	a carton	(b)	nylon	©	rubber	d	cotton
(53)	Kinetic energy is	n't affec	ted by the				
	(a) mass	(b)	speed	0	color	d	weight
60	All of the following	ng are e	examples of p	oulling	g fo <mark>rce, exc</mark> ep	t	<i>l</i>
	kicking a bal	11.		(b)	pulling the r	ope.	
	opening the	desk's	drawer.	(lifting up you	ur ba	g.
(55)	When a body mo	ves for	ward, the ch	ange t	that occurs is	in	<u> </u>
0	(a) the position of	of the bo	ody.	(b)	the Earth's gr	1.11	
	the size of the	U		(1)	the mass of th		W.
(56)	Objects need a fo		nove, this fo	rce is		n (cal	led)
192	pushing only	9	2 350	(b)	pulling only	2 75	36
	© pushing and		-0	(d)	the Earth gra		S - 10 10
(57)	When a ball stan	us on tr	ie ground w	itrioui	moving, the	iorce	s acting on it





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PRIMARY 4-FIRST TERM

									_
	a	balanced.	b	unbalanced	©	push it up	d	not equal	
	Wh	ich of the follow	wing	can store ene	rgy?				
(58)	(3)	battery	(b)	wire	0	plastic	d	rubber	
	The	energy gained	by a	ball when it fa	alls fr	om above is			
59)	a	Potential energy	(b)	kinetic energy	©	light energy	(1)	chemical energy	
	Wh	en an object m	oves	down a ramp,	its st	ored potentia	l ene	rgy	
50	a	increases			(b)	doesn't chan	ge		
9	0	changes to a le	ss act	ive form of	d	changes to a lenergy	more	active form o	f
20	The	energy that is	store	d in an object	due	to its position	is kr	own as	
61)	a	kinetic	(b)	potential	©	electric	d	chemical	
	Che	emic <mark>al e</mark> nergy st	tored	in batteries is	cons	idered a form	of	energy	
62)	_	potential	_	kinetic	_	heat	d	light	
	Che	emi <mark>ca</mark> l energy c	an be	stored in	^				
63)		food only	(b)	battery only	0	television and food	d	food and battery	
	The	fo <mark>rce</mark> that caus	ses ar	object to mo	ve a	distance is cal	led	750	
64)	(3)	work	(b)	potential	0	gravity	d	pull	
3	The	ability to do w	ork is						
65)	a	energy			©	push	d	pull	
		The speed of a	car th	nat tra <mark>ve</mark> ls 200) met	er in 2 second	l is	m/s	
99	(2)	20	(b)	40	©	100	d	200	
	Hov	v can <mark>we ca</mark> lcul	ate ti	ne speed of ar	obje	ect ?			
67)	(3)	distance ÷ tin	ne	W. D.	(b)	distance + tir	ne		
J.C.	0	distance x tim	e		(d)	distance - tir	ne		
	Wh	ich <mark>of the foll</mark> ov	wing	is a measuring	unit	of speed?			
68)	a	hr/km	6	sec/m	©	kg/sec	d	m/sec	

QUESTION 02

Complete using words between brackets

-causes many problems for the lungs (Breathing pollution)
- 2 Fish breathe gas which dissolved in water (Oxygen carbon dioxide)
- (Teeth only Teeth and tongue)







- 4 Mangroves trees grow in.....(Fresh water - salt water)
- **(5)** During exhalation,...... gas comes out of the lung. (Oxygen -Carbon dioxide)
- (6) The lungs are one of the important organs in thesystem. (Respiratory - Digestive)
- \bigcirc The diaphragm rises up during theoperation (inhalation - exhalation)
- 8 A tube with muscles that help push food into the stomach, called.... (Trachea – esophagus)
- 9 The fatty layer under the animal's skin to warm it is considered a.....adaptation (structural – behavioral)
- (10) An animal that can escape from enemies because of the length of its hind leg. (Arctic fox - jerboa)
- (11) The dolphin can locate its prey through its sense.....(hearing - sight)
- 12 The eyes send messages to through the nerves.(brain-spinal cord)
- 13 Sensory receptors send a message...... (from the brain to the muscles- from the sensory organs to the brain)
- 14 The time that the body takes to receive information from the environment and (reaction time-reflex action)
- (15) (16) The echo sound feature depends on(Hearing sense - Sight sense)
- The skin is an important organ of the system... (Respiratory Nervous)
- 17 The spinal cord is an important organ of thesystem (Nervous - Digestive)
- 18 The car slow down its speed when it runs out of fuel, as a result of (tension - friction)
- 19 The (balanced – unbalanced) forces cause the object to move.
- 20 The force that pulls things down is (friction – gravity)
- 21) When a person push car forward, his body begins to sweat heavily because his body his stored energy (increase – consumes)
- **(22)** The gas oven converts energy stored in the natural gas into heat energy (chemical - electrical)
- (23) During a car crash, the is inflated with a gas to provide a soft cushion.(seatbelt - airbag)







(24) When objects crash with each other, transfers between them. (distance - energy) As a result of hitting a ball with a bat, theof the ball will change (direction - mass) 26 27 28 Speed is a..... quantity.(physical-chemical) Fast objects cause...... dangers than the slow objects.(less-more) The big trucks need.....to move. (big engines -small engines) 29 When the car fuel is completely runs out, the car's...... becomes zero. (mass - speed) 30 The car needs..... to move.(fuel - water) (31) If Noor travels with her bicycle a distance of 10 km in two hours, then she is moving at a speed of (10 - 5) km/hr (32) Cats' eyes are adapted to night vision due to the presence of Behind their eyes (Tapetum lucidum - small eyes) When light falls on an object and the light.....,so we can see this object. 33 (absorb - reflects) 34 The eye sends messages to through the nerves. (brain - spinal cord) 35 When light is absorbed by an opaque object,is formed. (tapetum lucidum – shadow) 36 37is from the opaque objects. (Carton - Glass) Tarsier Monkey can turn its (eyes-head) like owls. 38 Light rays travel in the form of (curved - straight) lines in air. (39) Bees can communicate with each other by.....(dancing - smell) 40 The songs of Hamp back whales have a.....pitch in summer. (higher – lower) From the organs that we can use to end or receive the code 41 (eye – heart) are forms of codes(thumb up and down - swimming) (43) Humpback whales communicate with each other through the



.....sense (hearing - smelling)



	QUESTION 03 Put ($$) or (x) or the following statement	nts:
1	The ears of arctic fox are longer than those of fennec fox	1
2	All type of sharks live in fresh water.	j 🖯
3	Foxes have a strong sense of hearing.	(3
•	The respiratory system is responsible for the entry of air into the body.	50
5	Exhaled air is loaded with oxygen	(
6	When running and making an effort, the number of breathing times decreases.	Sq.
7	As the speed increases, the amount of fuel used decreases.	(
8	The feet of the penguin do not freeze because they have a layer of fat.	1
9	Man cannot restore the ecosystem with any way	(
10	The migration of birds to search for food is considered a form of behavioural adaptation	31
11)	Some animals that live in cold have a long ears; To help it to maintain the body temperature	2
12	Plants need long roots that extend deep into the soil to survive in the water scarce	(
13	Animals digging trenches is a form of structural adaptation	(
14)	The mass of a moving body affects its speed.	(
15	After collision, the air bag deflates the same speed as it inflates	(
16)	The sense of hearing of dolphin is stronger than that of human	(
17	The ear is the sense organ responsible for seeing objects	(
18	The brain responsible for processing information	(
19	Bats use their sense of smell to avoid dangers	1
20	Snakes have the ability to rotate their heads in all directions	(
21	A person can identify food which is not good through the sense of hearing	340
22	Bees can know the sweet taste by their sense of smell	6
23	The nervous system works separately from the five senses.	1
24	The skin is the sensory organ that makes you feel the smooth of the cloth	1





25	Nocturnal animals have eyes larger than human ()
26	Cats have excellent night vision, while snakes and bats are not ()
27	Tarsier cannot move its big eyes in their sockets like owl ()
28	Wood is a transparent object that allows light to pass through it ()
29	If I can see my face clearly on a surface, this means that it is a smooth, shiny surface
30	honeybees use movement to communicate with each others ()
31	The human eyes can see in the dark clearly. ()
32	Tarsier Monkey and owl have poor night vision. ()
33	The moon is a source of light ()
34	The wooden board reflects light less than the mirror ()
35	Human has a tapetum lucidum in his eye to help him see at night ()
36	painted surface reflects light in one direction ()
37	Some animals can see at night, such as a wild cat ()
38	shadow formed when light hits transparent object ()
39	Both humans and animals need a source of light to see ()
40	The opaque materials do not let the light pass through ()
41	Tapetum lucidum of fishing cat considered as a structural () adaptation.
42	Fishing cat has a mirror-like membrane on the back of the eye (
43	Whales sing with a high pitched sound during the mating season (
44	Humpback whales can sing under water ()
45	In order to translate the code, the brain must identify it ()
46)	Animals can use more than one senses to communicate with each other
47	Bees can know the sweet taste by their sense of smell ()
48	Both Morse code and humpback whale can use sound energy in () communication
49 50	Bats use their sense of smell to avoid dangers () Air resists the motion of a car. ()
(51)	Drivers should drive as fast as possible to avoid accidents ()
52	The stopping object can't move until a force acts on it ()







33)	Gravitational force is an upward pulling force	1
9		1
	When a pen falls down from your hand, the acting force is the gravity force	(
	When the static body is affected by balanced force, the body moves	(
	The seesaw moves up and down because the forces that act on it are unbalanced	(
	When the position of the body changes from a fixed point, the body moves	(
	The force that slows down or decreases the speed of an object is gravity.	(
	Gravity pulls objects towards the center of the Earth.	(
)	Any moving object has a form of energy known as kinetic energy.	(
)	When the roller coaster slides down fast, its kinetic energy increases	(
	The moving objects only have energy, while the objects that don't move have no energy	(
)	When you kick a ball, kinetic energy is produced	(
)	As the height of an object from the Earth's surface increases, its potential energy decreases	(
	In the electric fan, the kinetic energy is converted into electric energy.	(
	Energy is neither destroyed nor created from nothing.	(
)	A static ball moves on the ground if it is affected by a force.	(
	The chemical energy in a battery can be converted into electrical energy.	(
	Energy is the ability to do work	(
)	Seatbelt is one of safety equipment in cars.	(
)	The high-speed moving objects face less dangers than the slower objects.	(
	QUESTION 04 Complete the following sentences	

- Panther chameleon puffs up its body with air for defense which is considered _..... adaptation
- 2 Fish breath _..... gas which dissolved in water







The system that digests food to produce energy is Chameleons can move each of their eyes in a different direction, this adaptation helps them to Leaves of plants that float above the surface of the water are so wide that they can Animals that have a thick layer of fat under the skin are animals that live in aenvironment A tube with muscles that helps to push food into the stomach, is called _..... 8 The dolphin has sharp sense of..... 9 The eye sends messages to..... through the nerves. 10 The spinal cord is an important organ of the system. 11 The form energy that can be seen is.....energy. 12 Air and water arematerials and you can see things through them 13 Some animals have the ability to see in the dark because of_..... 14 Smooth surfaces reflect light in.....direction. 15 I saw an eye shining in the dark, this animal could be 16 You can see the objects due to t The eye pupil of the owl and cats is than the eye pupil of 17 the human 18are sources of light 19 Fireflies communicate with each other by producing a..... 20 Morse code is way of communication depending first onsense The echo is turned in to vibrations in thethat is good by blind people. The winter months are considered as theseason for humpback whales. A group of ants sendsmessage to communicate with each





other.



24	Bats cannot see in the dark, but they hunt their prey at nigof	ght because					
25	Both fireflies and honey bees use the sense ofin their communication .						
26	If the mass of an object decreases this mean that its kinetic energy						
27	The energy which is stored in a ball at the top of a hill is	•••••					
28	Airbags absorbs theof the car during collisi	on					
29	When objects collide with each other,is trabetween them.	nsferred					
T	QUESTION 05 Write the scientific term						
1	A type of adaptation that helps an animal to hide	(
2	A liquid substance in the mouth that moistens food and begins to break it down	(
3	A change in the body structure of a living organism to survive	(
4	A system that helps in breaking down food into smaller parts	(
(5)	A process of breaking down food into smaller parts that the body cells absorb and use to get energy and growth	(
6	A change in the behaviors or acts of a living organism to survive	(
7	A gas presents in air that living organisms breath during respiration process	(
8	A group of organs that work together to perform a specific job	(
9	The first organ in digestive system	(
10	A feature in the bull shark, in which the upper surface of its body is darker than lower surface	(
11)	The object which allows light to pass through it	(
12	They are materials reflect the light rays in one direction	(
13	A type of surface that reflects light in different direction.	(





0			
(M)	An animal can not move its eyes in their sockets	()
15	it is a visible form of energy that travels in form of waves	()
16	A mirror like a membrane at the back of the fishing cat's eye.	()
17	A tool used by the man works as the eyes of fishing cats at night.	()
18	Sense organ that can detect light energy	()
19	The force that pulls objects toward the center of the earth.	()
20	It is a push or pull that is applied to an object cause it to change its position	()
(21)	it is the ability to do work	()
22	it is a force that causes an object to move a distance	()
23	The energy that the object gains due to its motion	()
24	The form of energy that increases when the speed of an object increases	()
(25)	The stored energy in an object due to its position	()
26	The process in which two objects or more crash into each other and includes an energy	()
27	Safety equipment used to prevent car passengers from moving forward when the car stops suddenly	()
28	safety equipment provide a soft cushion, when it inflates automatically with a gas during collision	()
29	A heavy steel ball thot swings on a cable and it is used in destruction of buildings parts	()
1	QUESTION 06 Give reason?		
1	Owls can hunt during the night		
2	You can see an object placed behind a glass cup		
(3)	The eyes of human do not glow like dog cats in the dark		





4	fishing cat eyes glow in the dark
(5)	nocturnal animals can see in the dark
6	when light fall on object we can see it
7	moon is not considered as a source of light
8	Humans use reading, writing and speaking
9	Some Animals use echolocation
P	QUESTION 07 What happened if?
(1)	if a firefly wants to attract a mate to reproduce?
(2)	A danger becomes close to the colony of ants.
3	The sound waves produced by a bat hits an insect.
(4)	when the mass of a moving body increases, as it moves down wards along a ramp.
_	
10	QUESTION 08 cross the odd word
1	Penguin - Polar bear - Snake - Arctic fox
2	Cat – Dog – Deer - Bat
3	Wood - Glass cup – Book - Wall
4	Lamp-Fire-Moon-Candle
(5)	Bats – fireflies - blind person's cane - dolphins
(6)	Sound energy - light energy - thermal energy - chemical





Match

O

	(A)		(B)
1	Sun	(a)	reflect light rays in one direction
2	Shadow	b	is formed when the light strikes a human body.
3	Moon	(0)	is the main source of energy
4	Smooth	d	is shiny but is not considered a source of energy

2

	(A)		(B)			
1	Gravity	a	the energy stored inside the body.			
2	Friction	(b)	the force that pulls things downwards.			
3	Speed	©	a force that arises between the surfaces of two contacted bodies.			
4	Potential energy	d	the distance covered per time unit.			

3

	(A)		(B)
1	Carbon dioxide	a	process that diaphragm expands and moves up
2	Exhalation	b	the process of pushing air in and out of the body
		©	is a gas that is produced by respiration process

4

	(A)		(B)
① Jei	rboa	a	it depends on the body's sense of heat for predation.
2 Sna	ake	b	it depends on the echo of the sound in locating the prey.
3 Bat		•	it depends on its hind legs to jump .





5

(A)		(B)
1	Tapetum lucidum	it is a common organ in the digestive and respiratory systems.
2	Pharynx	a muscle that has an important role in the respiration.
		a structural adaptation in the eye provides some animal a better vision at night

6

(A)			(B)
1	Light	a	an animal with a bowl-like face.
2	Owl	b	it is the visible form of energy that is transmitted in the form of waves.
		C	it depends on its hind legs to jump.

Ø

	(A)	(B)	
1	Camouflage	a it helps us to see.	
2	Smell	a type of adaptation that helps an animals to hide.	
		ants use it to communicate.	

8

(A)		(B)		
1	Food	a	it can be transformed into potential energy	
2	kinetic energy	b	it is a source of energy for humans	
3	potential energy	©	it is the stored energy in an object	





Answer the following questions

1	Give two examples for Objects that are considered as sources of light.
2	Give one example for an nocturnal animal that depend on its sense of heat to get their prey
3	Butterflies that have a color like the color of the tree they live on are called this phenomenon
4	Rabbits have long and strong hind legs that help them to jump quickly and escape when danger determine the type of adaptation
5	some dogs live in a cold environment, while some live in a hot environment. In your opinion, which one has thick fur, the cold environment or the hot environment? And why?
6	A dolphin can locate living organisms and things under the surface of the water and explain the feature that helps the dolphin to do.
7	When you sit on the chair without moving. What is the name of the force that pulls you downward?
8	Mention some of the safety equipment in the car?
9	Find the speed of a runner, if you know that he covers 400 meters in 8 seconds.
10	A train travels from Cairo to Alexandria in a distance of 200 kilometres in 2 hours, Find its speed
	Calculate the speed of a train that. covers 600 km in a time of 6 hours.



			ا.محمود سعید
12	if the two Cars moved at the same time for 20 seco covered a distance of 100 meters, while car (B) cov distance of 300 meters. Which of the two cars has speed?	ered a	A & & B
			8 9 8
		_	
13	Complete after noticing the following figure - Wha happens until you see this apple? The light falls on the then it is reflected on		
	eyes – so the eyes transmit the message to	All is a	The state of the s
	he interprets it and translates it, so we see the appl		
	Look at the following figures, then answer the ques	tions below:	
	Figure (a) Figure (b)		
	a. The surface in figure (a) isBecause		
	b. The surface in figure (b) isBecause		
	c. In the previous two figures, the falling and reflect		
	light travels inlines.	,	
	d. The surface in figure (a) may be		
	(plastic - wood - mirror - cloth)		
15)	Which of these cars is affected by greater force? (give reason for your answer)	ORIGINAL POINT	A
16)	Note the following two figures.	35 CM	9 B
	a. Identify the name of each of the two		
	processes in Figures 1, 2: -	5	49
	b. What happens to the diaphragm in Figure (1).	-	
	بت الأسئلة مع اطبب الامنيات بالنحاح والتوفيق	(1) انته	(2)

انتهت الأسئلة مع اطيب الامنيات بالنجاح والتوفيق



Model Answers

SCIENCE



Final Revision

Mrs . Amira Ahmed

o cartoon science







EL MOTAMYEZ - SCIENCE Questions Bank FINAL REVISION

0	QUESTION 01	Cho	ose The (Corre	ct Answer		
	When a panthe		eleon stand	ds on le	eaves of trees,	the	color of its
(1)	scales changes into						
	(a) white		<u>green</u>	©	blue	(1)	black
2	The fur of fenn		•	_	•••		
	(a) wind		rains		hot weather	(d)	cold weather
	One of the behavio	oral ad	aptations tl	nat hel	p the animal p	orote	ct itself from
(3)	enemies						
	(a) <u>Camouflage</u>	(b)	extinction	©	immigration		reproductio
	Bat isanimal.				_		
	nocturnal	(b)	morning	©	Harmful	d	don't fly
	is coveri	ing boo	dy arctic fox				
(5)	a heavy hair	(b)	heavy skin	0	thick fur		many
	_						feathers
(6)	pan				-		
	Whales		Lions		<u>Foxes</u>	(d)	Bats
(3)	Animals that live in			nt hav	e ear	s to h	nelp her, and
7	allow heat to esca		short	0	sharp		long
					•		iong
(8)	Fish extracts oxyge a skin	_			 lungs		fins
	which of the fo		<mark>gills</mark> a can turn it			ns 2	11112
9		_		_		(b)	amplene
	O IIIE O O O		owis		cats		snakes
(10)	When you determ			_			
	<u></u>	-	the eye		the ear		the nose
(11)	The sense you use		_		_		
	(a) taste		sight	©	smell		hearing
(12)	Your sensation of I		-		-	otors	
	(a) eyes	_	<u>skin</u>	©	nose		ears
(12)	What carries the m something	nessag	e trom your	eyes t	o your brain v	vhen	you see
	a nerves	(b)	muscle	(c)	veins	(d)	alands



SCIENCE QUESTIONS BANK PRIMARY 4 - FIRST TERM PRIMARY 4 - FIRST TERM PRIMARY 4 - FIRST TERM PRIMARY 4 - FIRST TERM

	Thesystem			nessages that	come	from our
(14)	surroundings, such respiratory	b diges		nervous	d	circulatory
(15)	energy aff	ects the sen	sory recepto	ors in the eye o	ausir	ng vision.
	Magnetic	b <u>Light</u>	©	Kinetic	d	Sound
(16)	The organ which is	responsible	for smellin	g sense		
	(a) ear	b tongu		nose		eye
(17)	All the following co				em ex	cept
	spinal cord	b heart	©	nerves	(d)	brain
(18)	Theis the m			•		
0	(a) nerve	b brain		spinal cord	(d)	sense
(10)	The system helps u such as smells and		nessages th	at come from	our si	urroundings,
(19)	respiratory	b diges	tive ©	nervous	(d)	circulatory
	When can object c					occurs
20				sensory	(d)	
	reflex action			organ		sleeping
(21)	All the following					
	a snakes		g cats ©		(d)	horses
(22)	Which type of ener					
	light	b gravit		chemical		mechanical
(23)	The organ respons					
	(a) the ear		ongue ©		(d)	the eye
(24)	Animals can comm					
	light	b talkin	g ©	writing	(1)	reading
	All of these materia	als are opaq	ue except			
(25)	(a) wood	b huma	n ©	book	d	water
	Which of the follow	body	rce of light	7		
(26)	a the moon	b our e		<u>fire</u>	(d)	a mirror
	To detect the place					
(27)	a sight sense			taste sense		hearing sense
	Each of the followi					9
(28)	a the fire	b the su		the lamp	d	the eye



	eyes have a th	in me	embrane in th	ne bad	k of the eye.		
(29)	(a) Human	(b)	Tarsier monkey	©	Snake	d	Bats
30	All of the following	are t	ransparent o	bjects	s, except		
0	glass	(b)	water.	©	paper		air
	it produces chemic	al rea	ction inside i	ts boo	iy		
(31)	a butterflies	b	<u>fireflies</u> <u>beetles</u>	©	house flies	d	owl
32	the mating season	of hu	<mark>mpback wh</mark> a	les		_	
•	a summer	(b)	<u>winter</u>	©	spring	d	fall
(22)	Both tarsier and ov	vI,					
33	(a) can swim	(b)	can fly	©	are nocturnal animals	d	same specie
(34)	What happens to li	ight v	vhen it hits a	rough	n surface?		
	scattering	(b)	reflection	©	absorption	d	refraction
(35)	Which of the follow objects?	ving d	organs are w	orking	g together for	seeir	ng different
6	Nose and brain	b	Eyes and brain	©	Ears and brain	d	Tongue and brain
36	There is a tapetum	lucid	um in all of th	ne foll	owing except		
				/	Ale a le como a m		44 4
	(a) the horse	(b)	the cat	©	the human	(d)	the dog
	(a) the horse All the following co			rce of			the dog
37							the dog <u>moon</u>
37	All the following co a sun Which of the follow	onside (b)	ered as a sou candle	rce of	light except fire	a	
	All the following co	onside (b)	ered as a sou candle	rce of	light except fire	a	
37	All the following co a sun Which of the follow	onside b ving a b	ered as a sou candle allows the lig Moon elps you see	rce of © ht to p © yours	light except fire pass through i Wood elf in a mirror	d t?	moon
37	All the following coast a sun Which of the follow A rock	onside b ving a b	ered as a sou candle allows the lig Moon	rce of © ht to p © yours	light except fire pass through i Wood elf in a mirror	d t?	moon
37	All the following coast a sun Which of the follow a A rock What property of li	onside b ving a b ight h	ered as a sou candle allows the lig Moon elps you see reflection	rce of © ht to © yours	light except fire pass through i Wood elf in a mirror absorption	d t?d ?	moon Glass relativity
37	All the following coast a sun Which of the follow a A rock What property of life refraction	onside b ving a b ight h	ered as a sou candle allows the lig Moon elps you see reflection	rce of c ht to p yours c oes of	light except fire pass through i Wood elf in a mirror absorption	d t?d ?	moon Glass relativity
37	All the following coasun Which of the follow a A rock What property of lift a refraction Reading and writin human Raising the thumb	onside ving a b ight h ag are b up or	candle candle allows the lig Moon elps you see reflection common typ animals lower it dow	rce of c ht to p yours c oes of c n is a	light except fire pass through i Wood elf in a mirror absorption communicatio birds kind of	d t?d ?	moon Glass relativity
37	All the following co a sun Which of the follow a A rock What property of li a refraction Reading and writin a human Raising the thumb a colors	onside ving a b ight h ag are up or	candle candle allows the lig Moon elps you see reflection common typ animals lower it dow	rce of c ht to p yours c oes of c n is a c	light except fire pass through i Wood elf in a mirror absorption communicatio birds kind of	(d) ? (d) on be	moon Glass relativity tween plants
37	All the following co a sun Which of the follow a A rock What property of li a refraction Reading and writin a human Raising the thumb a colors Bats use their	onside ving a b ight h ag are up or	candle candle allows the lig Moon elps you see reflection common typ animals lower it dow	rce of c ht to p yours c oes of c n is a c	light except fire pass through i Wood elf in a mirror absorption communicatio birds kind of	(d) ? (d) on be	moon Glass relativity tween plants
37	All the following co a sun Which of the follow a A rock What property of li a refraction Reading and writin a human Raising the thumb a colors Bats use their	onside ving a b ght h g are up or b To	candle allows the lig Moon elps you see reflection common typ animals lower it dow codes get informat	rce of c tht to p yours c oes of c in is a c tion a	light except fire pass through i Wood elf in a mirror absorption communicatio birds kind of waves bout their suri	(d) ? (d) on be	moon Glass relativity tween plants lights dings in the
37	All the following co a sun Which of the follow a A rock What property of li a refraction Reading and writin a human Raising the thumb a colors Bats use their	onside ving a b gare up or b To	candle allows the lig Moon selps you see reflection common typanimals lower it down codes get informationgue	rce of c ht to p yours c oes of c rn is a c tion al	light except fire pass through in Wood elf in a mirror absorption communication birds kind of	d t? d on be	moon Glass relativity tween plants lights dings in the
37	All the following co a sun Which of the follow a A rock What property of li a refraction Reading and writin a human Raising the thumb a colors Bats use their	onside ving a b gare up or b To	candle allows the lig Moon selps you see reflection common typanimals lower it down codes get informationgue wn (decreases	rce of c ht to p yours c oes of c rn is a c tion al	light except fire pass through in Wood elf in a mirror absorption communication birds kind of	(d)	moon Glass relativity tween plants lights dings in the

SCIENCE QUESTIONS BANK PRIMARY 4-FIRST TERM 21cm 29020.1

		es organs collec	t inf	formation and	sen	d signals to	for	processing
(44)		understanding stomach	(b)	brain	©	hands	d	ear
45)		/hen an object i	is in	motion, this m	nean		ch	anges
49		color	b	shape	_	size	d	position
46)	₩ W	hen you move					nts	***
•		pushing force				<u>pulling force</u>		sound energy
(17)	All th	ne following rep	rese	-	g foi	ce except to	••••	
	a	kick a ball	(b)	press on switch	©	close drawer	d	<u>lifting up a</u> <u>bag.</u>
	Whe	n you s <mark>it o</mark> n a cl	hair,	the force of g	ravit	y isand	hold	ing you in the
(48)	chair					_		
	(61 /	pul <mark>l you</mark> upward	(b)	<u>pull you</u> <u>downward</u>	©	push you upward	d	push you downward
40	Push	or pull actions	are (considered as	type	s of		
	a	<u>force</u>	(b)	device	©	energy	d	adaptation
50	The f	f <mark>orce that pulls</mark>	the d	objects down	towa	rd the center	of th	e earth is
9	a	<u>gravity</u>	(b)	pushing	©	pulling	d	wind
	The f	f <mark>orce that occur</mark>	s wh	nen an object	rubs	against anoth	er ot	ject is
(51)	calle							
		<u>friction</u>	(b)	gravity	©	push	(1)	pull
(52)	The	airbag is made o	of					
32)		carton	b	nylon	©	rubber	d	cotton
(53)		tic e <mark>nergy</mark> isn't a						
		mass	(b)	speed	(c)	color		weight
(54)		f the following	are e	examples of pi	ulling			•••••
	~	kicking a ball.			(b)	pulling the ro	•	
		opening the de				lifting up you		
(55)		n a body moves			nge t			
	a the position of the body.				(b)	the Earth's gravity.		
	©	the size of the bo	ody.		(1)	the mass of th	e boc	ly.
(56)	Obje	cts need a force	e to i	move, this for	ce is i	represented in	(call	ed)
	a	pushing only			(b)	pulling only		
	©	<u>pushing and pu</u>	ılling	<u>together</u>	d	the Earth gra	vity o	only
(57)		n a ball stands (on th	ne ground wit	hout	moving, the f	orce	s acting on it
	are							







PRIMARY 4-FIRST TERM

	a	balanced.	b	unbalanced	©	push it up	d	not equal
	Wh	ich of the follow	ing	can store ener	gy?			
(58)	a	battery	(b)	wire	©	plastic	d	rubber
	The	energy gained	by a	ball when it fa	alls fr	om above is		
(59)	a	Potential energy	b	kinetic energy	©	light energy	d	chemical energy
	Wh	en an object mo	ves (down a ramp,	its st	ored potential	ene	rgy
60	a	increases			(b)	doesn't chang	_	
	©	changes to a less energy	s act	ive form of	d	changes to a n	nore :	<u>active form of</u>
(61)	The	energy that is s	tore	d in an object	due t	to its position,	is kn	own as
	a	kinetic	(b)	<u>potential</u>	©	electric	d	chemical
62)	Che	<mark>mical en</mark> ergy sto	ored	in batteries is	cons	idered a form	of	energy
	a	potential	(b)	kinetic	©	heat	d	light
	Che	<mark>mical</mark> energy ca	n be	stored in	•••			
(63)	a	food only	b	battery only	©	television and food	d	food and battery
64)	The	force that cause	es ar	object to mo	ve a	distance is calle	ed	
6	a	work	(b)	potential	©	gravity	d	pull
(65)	The	ability to do wo	rk is					
(63)	(3)	energy	(b)	force	©	push	d	pull
		The speed of a c	ar th	nat travels 200) met	er in 2 second	is	.m/s
(00)	(1)	20	(b)	40	©	100	d	200
	Hov	v can <mark>we c</mark> alcula	te th	ne speed of an	obje	ect ?		
(67)	a	distance + time	2		(b)	distance + tin	ne	
	©	distance x time			d	distance - tim	ie	
(68)	Wh	ich <mark>of the follow</mark>	ing	is a measuring	unit	of speed?		
(00)	a	hr/km	(b)	sec/m	©	kg/sec	d	m/sec
								-

QUESTION 02

Complete using words between brackets

-causes many problems for the lungs (Breathing pollution)
- Fish breathe gas which dissolved in water (Oxygen carbon dioxide)
- (Teeth only <u>Teeth and tongue</u>)







- Mangroves trees grow in.....(Fresh water salt water)
- During exhalation,..... gas comes out of the lung. (Oxygen -Carbon dioxide)
- The lungs are one of the important organs in thesystem. (Respiratory - Digestive)
- The diaphragm rises up during theoperation (inhalation - exhalation)
- (8) A tube with muscles that help push food into the stomach, called..... (Trachea – esophagus)
- 9 The fatty layer under the animal's skin to warm it is considered a.....adaptation (structural – behavioral)
- (10) An animal that can escape from enemies because of the length of its hind leg. (Arctic fox - jerboa)
- (11) The dolphin can locate its prey through its sense............(hearing - sight)
- 12 The eyes send messages to through the nerves. (brain-spinal cord)
- 13 Sensory receptors send a message...... (from the brain to the muscles- from the sensory organs to the brain)
- 14 The time that the body takes to receive information from the environment and (<u>reaction time</u>-reflex action)
- The echo sound feature depends on(Hearing sense Sight sense)
- 15 The skin is an important organ of the system... (Respiratory - Nervous)
- 17 The spinal cord is an important organ of thesystem (Nervous - Digestive)
- 18 The car slow down its speed when it runs out of fuel, as a result of (tension - friction)
- 19 The (balanced – <u>unbalanced</u>) forces cause the object to move.
- The force that pulls things down is (friction gravity)
- **(21)** When a person push car forward, his body begins to sweat heavily because his body his stored energy (increase – consumes)
- The gas oven converts energy stored in the natural gas into heat energy (chemical - electrical)
- (23) During a car crash, the is inflated with a gas to provide a soft cushion.(seatbelt - airbag)







- When objects crash with each other, transfers between them. (distance - energy) As a result of hitting a ball with a bat, theof the ball will change (direction - mass) 26 Speed is a..... quantity.(physical-chemical) 27 28 Fast objects cause...... dangers than the slow objects.(less-more) The big trucks need..... to move. (big engines) 29 When the car fuel is completely runs out, the car's...... becomes zero. (mass - speed) 30 The car needs..... to move.(fuel - water) (31) If Noor travels with her bicycle a distance of 10 km in two hours, then she is moving at a speed of (10 - 5) km/hr (32) Cats' eyes are adapted to night vision due to the presence of Behind their eyes (Tapetum lucidum - small eyes) When light falls on an object and the light......so we can see this object. 33 (absorb - reflects) 34 The eye sends messages to through the nerves. (brain - spinal cord) 35 When light is absorbed by an opaque object,is formed. (tapetum lucidum - shadow) 36 37is from the opaque objects. (Carton - Glass) Tarsier Monkey can turn its (eyes-head) like owls. 38 Light rays travel in the form of (curved - straight) lines in air. (39)
- The songs of Hamp back whales have a.....pitch in summer. (higher lower)

 From the organs that we can use to end or receive the code
- (eye heart)
- are forms of codes(thumb up and down swimming)
- Humpback whales communicate with each other through thesense (hearing smelling)

Put ($\sqrt{\ }$) or (x) or the following statements:

1	The ears of arctic fox are longer than those of fennec fox	×
2	All type of sharks live in fresh water.	×
3	Foxes have a strong sense of hearing.	\
4	The respiratory system is responsible for the entry of air into the body.	V
5	Exhaled air is loaded with oxygen	×
6	When running and making an effort, the number of breathing times decreases.	×
7	As the speed increases, the amount of fuel used decreases.	×
8	The feet of the penguin do not freeze because they have a layer of fat.	×
9	Man cannot restore the ecosystem with any way	×
10	The migration of birds to search for food is considered a form of behavioural adaptation	4
11)	Some animals that live in cold have a long ears; To help it to maintain the body temperature	×
12	Plants need long roots that extend deep into the soil to survive in the water scarce	
13	Animals digging trenches is a form of structural adaptation	×
14	The mass of a moving body affects its speed.	1
15)	After collision, the air bag deflates the same speed as it inflates	
16	The sense of hearing of dolphin is stronger than that of human	
17	The ear is the sense organ responsible for seeing objects	×
18	The brain responsible for processing information	
19	Bats use their sense of smell to avoid dangers	*
20	Snakes have the ability to rotate their heads in all directions	×
21	A person can identify food which is not good through the sense of hearing	×
22	Bees can know the sweet taste by their sense of smell	×
23	The nervous system works separately from the five senses.	×
24	The skin is the sensory organ that makes you feel the smooth of	4





the cloth



		محوود سعتد
25	Nocturnal animals have eyes larger than human	1
26	Cats have excellent night vision, while snakes and bats are not	×
27	Tarsier cannot move its big eyes in their sockets like owl	
28	Wood is a transparent object that allows light to pass through it	×
29	If I can see my face clearly on a surface, this means that it is a smooth, shiny surface	×.
30	honeybees use movement to communicate with each others	
31	The human eyes can see in the dark clearly.	×
32	Tarsier Monkey and owl have poor night vision.	*
33	The moon is a source of light	×
34	The wooden board reflects light less than the mirror	
35	Human has a tapetum lucidum in his eye to help him see at night	×
36	painted surface reflects light in one direction	×
37	Some animals can see at night, such as a wild cat	V
38	shadow formed when light hits transparent object	×
39	Both humans and animals need a source of light to see	/
40	The opaque materials do not let the light pass through	\
41	Tapetum lucidum of fishing cat considered as a structural adaptation.	×.
42	Fishing cat has a mirror-like membrane on the back of the eye	×.
43	Whales sing with a high pitched sound during the mating season	V
44	Humpback whales can sing under water	
45	In order to translate the code, the brain must identify it	
46	Animals can use more than one senses to communicate with each other	
47	Bees can know the sweet taste by their sense of smell	×
48	Both Morse code and humpback whale can use sound energy in communication	S
49	Bats use their sense of smell to avoid dangers	×
50	Air resists the motion of a car.	
(51)	Drivers should drive as fast as possible to avoid accidents	×
52	The stopping object can't move until a force acts on it	



		حوود سعيد
53	Gravitational force is an upward pulling force	×
54	When a pen falls down from your hand, the acting force is the gravity force	V
55	When the static body is affected by balanced force, the body moves	×
56	The seesaw moves up and down because the forces that act on it are unbalanced	4
57	When the position of the body changes from a fixed point, the body moves	
58	The force that slows down or decreases the speed of an object is gravity.	×
59	Gravity pulls objects towards the center of the Earth.	
60	Any moving object has a form of energy known as kinetic energy.	1
61	When the roller coaster slides down fast, its kinetic energy increases	
62	The moving objects only have energy, while the objects that don't move have no energy	×
63	When you kick a ball, kinetic energy is produced	
64	As the height of an object from the Earth's surface increases, its potential energy decreases	×
65	In the electric fan, the kinetic energy is converted into electric energy.	×
66	Energy is neither destroyed nor created from nothing.	
67	A static ball moves on the ground if it is affected by a force.	1
68	The chemical energy in a battery can be converted into electrical energy.	4
69	Energy is the ability to do work	4
70	Seatbelt is one of safety equipment in cars.	1
71	The high-speed moving objects face less dangers than the slower objects.	*
	OUESTION 04 Complete the following sentences	

Complete the following sentences

- Panther chameleon puffs up its body with air for defense which is considered behavioral adaptation
- 2 Fish breath oxygen gas which dissolved in water.







- 3 The system that digests food to produce energy is digestive system
- Chameleons can move each of their eyes in a different direction, this adaptation helps them to <u>catch prey find food</u>
- Leaves of plants that float above the surface of the water are so wide that they can absorb sunlight
- 6 Animals that have a thick layer of fat under the skin are animals that live in a cold environment
- A tube with muscles that helps to push food into the stomach, is called <u>esophagus</u>
- 8 The dolphin has sharp sense of hearing
- The eye sends messages to brain through the nerves.
- The spinal cord is an important organ of the nervous system.
- 11 The form energy that can be seen is <u>light</u> energy.
- Air and water are transparent materials and you can see things through them
- Some animals have the ability to see in the dark because of <u>Tapetum</u> <u>lucidum</u>
- Smooth surfaces reflect light in <u>one</u> direction.
- I saw an eye shining in the dark, this animal could be (cat (nocturnal animal))
- You can see the objects due to the <u>reflection</u> of light rays to the eyes
- The eye pupil of the owl and cats is wider than the eye pupil of the human
- 18 sun, candle and fire are sources of light
- Fireflies communicate with each other by producing a light
- Morse code is way of communication depending first on hearing sense
- The echo is turned in to vibrations in the <u>blind person cane</u> that is good by blind people.
- The winter months are considered as the <u>matting</u> season for humpback whales.
- 23 A group of ants sends **smelly** message to communicate with each other.





- Bats cannot see in the dark, but they hunt their prey at night because of echolocation
- Both fireflies and honey bees use the sense of <u>sight</u> in their communication.
- If the mass of an object decreases this mean that its kinetic energy decrease
- The energy which is stored in a ball at the top of a hill is gravitional potential energy.
- 28 Airbags absorbs the energy of the car during collision..
- When objects collide with each other, energy is transferred between them.

QUESTION 05 Write the scientific term

- A type of adaptation that helps an animal to hide
- A liquid substance in the mouth that moistens food and begins to break it down
- A change in the body structure of a living organism to survive
- A system that helps in breaking down food into smaller parts
- A process of breaking down food into smaller parts that the body cells absorb and use to get energy and growth
- A change in the behaviors or acts of a living organism to survive
- A gas presents in air that living organisms breath during respiration process
- A group of organs that work together to perform a specific job
- The first organ in digestive system
- A feature in the bull shark, in which the upper surface of its body is darker than lower surface
- 11 The object which allows light to pass through it
- 12) They are materials reflect the light rays in one direction

camouflage

saliva

structural adaptation

Digestive system

digestion process

behavioral adaptation

oxygen gas

system

mouth

Countershading

transparent object smooth and shiny material





13	A type of surface that reflects light in different direction.	rough surface
14	An animal can not move its eyes in their sockets	tarsier
15	it is a visible form of energy that travels in form of waves	light
16	A mirror like a membrane at the back of the fishing cat's eye.	tapetum lucidum
17	A tool used by the man works as the eyes of fishing cats at night.	night vision goggles
18	Sense organ that can detect light energy	Eye
19	The force that pulls objects toward the center of the earth.	gravity
20	It is a push or pull that is applied to an object cause it to change its position	force
21	it is the ability to do work	energy
22	it is a force that causes an object to move a distance	work
23	The energy that the object gains due to its motion	kinetic energy
24	The form of energy that increases when the speed of an object increases	kinetic energy
25)	The stored energy in an object due to its position	potential energy
26	The process in which two objects or more crash into each other and includes an energy	collision
27	Safety equipment used to prevent car passengers from moving forward when the car stops suddenly	seatbelt
28	safety equipment provide a soft cushion, when it inflates automatically with a gas during collision	airbag
29	A heavy steel ball thot swings on a cable and it is used in destruction of buildings parts	A wrecking ball
	QUESTION 06 Give reason?	

- Owls can hunt during the night Because owl is nocturnal animals with sharp hearing sense it use echolocation to find prey
- You can see an object placed behind a glass cup Because glass is transparent object allow light to pass through







- The eyes of human do not glow like dog cats in the dark Bec human don't have tapetum lucidum
- fishing cat eyes glow in the dark
 because it has tapetum lucidum that reflects the light falls on it
- nocturnal animals can see in the dark

 Because of tapetum lucidum
- when light fall on object we can see it
- Because of light reflection (light fall from light source on object then it reflect to our eyes)
- moon is not considered as a source of light

 Because it reflects the light of the sun that falls on it.
- 8 Humans use reading, writing and speaking
 To communicate with each others
- Some Animals use echolocation

 To determine the location of living organisms and objects around them

What happened if?

- if a firefly wants to attract a mate to reproduce?

 It use its wings to produce flash light (chemical reaction)
- A danger becomes close to the colony of ants.
- Solider ants send smelly messages
 The sound waves produced by a bat hits an insect.
- The sound waves return back to the bat inform of echo so bat can detect the place of insect
- when the mass of a moving body increases, as it moves down wards along a ramp.

The kinetic energy will increase

QUESTION 08

cross the odd word

- 1 Penguin Polar bear Snake Arctic fox snake
- (2) Cat Dog Deer Bat bat
- (3) Wood Glass cup Book Wall Glass cup
- 4 Lamp-Fire-Moon-Candle Moon
- S Bats fireflies blind person's cane dolphins Fireflies
- Sound energy light energy thermal energy chemical energy





Match

(A)	(B)
Sun	a reflect light rays in one direction
2 Shadow	is formed when the light strikes a human body.
3 Moon	is the main source of energy
Smooth	is shiny but is not considered a source of energy
	2
(A)	(B)
① Gravity	a the energy stored inside the body.
2 Friction	the force that pulls things downwards.
3 Speed	a force that arises between the surfaces of two contacted bodies.
Potential energy	the distance covered per time unit.
	3
(A)	(B)
Carbon dioxide	process that diaphragm expands and moves up
2 Exhalation	the process of pushing air in and out of the body
	is a gas that is produced by

(A)	(B)
1 Jerboa	it depends on the body's sense of heat for predation.
2 Snake	it depends on the echo of the sound in locating the prey.
3 Bat	it depends on its hind legs to





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(A)		(B)		
1	Tapetum lucidum	it is a common organ in the digestive and respiratory systems.	30	
2	Pharynx	a muscle that has an important role in the respiration.		
2	5 5	a structural adaptation in the eye provides some animal a better vision at night	30	

	(A)	(B)	3
1	Light	an animal with a bowl-like face.	1- b
2	Owl	it is the visible form of energy that is transmitted in the form of waves.	2- a
		it depends on its hind legs to jump.	3

(A)		(B)		
1	Camouflage	a it helps us to see.	1	
2	Smell	a type of adaptation that land an animals to hide.	helps	
9	15° S	ants use it to communicate	e.	

	(A)		(B)			
1	Food	a	it can be transformed into potential energy	1-		
2	kinetic energy	b	it is a source of energy for humans	6 2-		
3	potential energy	•	it is the stored energy in an object	3-		



Answer the following questions

Give two examples for Objects that are considered as sources of light.

Sun - candle

- Give one example for an nocturnal animal that depend on its sense of heat to get their prey (snake)
- Butterflies that have a color like the color of the tree they live on are called this phenomenon (Camouflage)
- Rabbits have long and strong hind legs that help them to jump quickly and escape when danger determine the type of adaptation (Structural adaptation)
- some dogs live in a cold environment, while some live in a hot environment. In your opinion, which one has thick fur, the cold environment or the hot environment? And why? (cold environment to keep its body warm)
- A dolphin can locate living organisms and things under the surface of the water and explain the feature that helps the dolphin to do.

 Because dolphin use echolocation as it has a strong sense of hearing
- When you sit on the chair without moving. What is the name of the force that pulls you downward?

 Gravity pulling force
- 8 Mention some of the safety equipment in the car?

1 – seatbelt 2- airbag

Find the speed of a runner, if you know that he covers 400 meters in 8 seconds.

Speed = $\frac{\text{distance}}{\text{time}}$ = $\frac{400}{8}$ = 50 m/sec.

A train travels from Cairo to Alexandria in a distance of 200 kilometres in 2 hours, Find its speed

Speed = $\frac{\text{distance}}{\text{time}} = \frac{200}{2} = 100 \text{ km/hr.}$





(11) Calculate the speed of a train that. covers 600 km in a time of 6 hours.

Speed =
$$\frac{\text{distance}}{\text{time}}$$
 = $\frac{600}{6}$ = 100 km/hr

if the two Cars moved at the same time for 20 seconds, car (A) covered a distance of 100 meters, while car (B) covered a distance of 300 meters. Which of the two cars has a higher speed?

Speed of car (A) =
$$\frac{\text{distance}}{\text{time}} = \frac{100}{20} = 5 \text{ m/sec}$$

Speed of car (B) = $\frac{\text{distance}}{\text{time}} = \frac{300}{20} = 15 \text{ m/sec}$
So car (B) has a higher speed

- Complete after noticing the following figure What happens until you see this apple?
 - The light falls on the apple then it is reflected on the eyes
 so the eyes transmit the message to the brain then he interprets it and translates it, so we see the apple.
- Look at the following figures, then answer the questions below:



- a. The surface in figure (a) is smooth (mirror) Because the light rays reflected in one direction
- b. The surface in figure (b) is <u>rough (wood or cloth)</u> Because <u>the light rays</u> <u>reflected in different directions</u>
- c. In the previous two figures, the falling and reflected rays show that light travels in straight lines.
- d. The surface in figure (a) may be (plastic - wood - mirror - cloth)

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Which of these cars is affected by greater force?
(give reason for your answer)

Car (A) ,because it travels a longer distance



- Note the following two figures.
 - a. Identify the name of each of the two processes in Figures 1, 2: -
 - 1- inhalation process
 - 2- exhalation process
 - b. What happens to the diaphragm in Figure (1).

Diaphragm move down





تم بحمد الله

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم

